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## **AMENDMENT**

## Please replace paragraph 3 with the following:

## Please replace paragraph 27 with the following:

[0027] In an alternative embodiment, the transducer array 32 electrically connects to electrical components 34 within the probe housing 16. For example, the probe electronics 34 include a multiplexer electrically connected between the plurality of cables of the cable 18 and the transducer elements of the array 32. The multiplexer is positioned in the transducer probe housing 16 with the array 32. The multiplexer is operable to multiplex signals from a plurality of elements onto a fewer number of outputs using time division multiplexing. In alternative embodiments, other forms of multiplexing are provided. Preamplifiers or other structures are also included in other embodiments with the multiplexer. For example, the structures disclosed in U.S. <u>Published Patent Application Nos. 20040002652 and 20030139671 and (U.S. Serial Numbers 10/184,461 and 10/341,871)</u>, the disclosures of which are incorporated herein by reference, are used. For a multiplexed onto a common output. A plurality of outputs for different groups of elements is provided. In alternative embodiments, the probe electronics 34 are different components for the same or different functions, or the transducer probe housing 16 is provided without the

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further electronics 34. In another embodiment, the probe electronics 34 include delays, amplifiers and summers for performing beamforming functions for sub-arrays or across the entire array.

## Please replace paragraph 51 with the following: